

Safety Data Sheet (1907/2006/EC)Material: 70106002 **SPRAY AK 200 ML**

Version: 1.15 (GB) Date of print: 14.04.2011 Date of last alteration: 03.12.2009

1 Identification of the substance/preparation and company**1.1 Name of substance/preparation**

Commercial product name: SPRAY AK 200 ML

1.2 Use of substance / preparationIndustrial.
release agent**1.3 Company name**Manufacturer/distributor: Wacker Chemie AG
Street/POB-No.: Hanns-Seidel-Platz 4
State/postal code/city: D 81737 München
Telephone: +49 89 6279-0
Telefax: +49 89 6279-1770

Information about the Safety Data Sheet:	Telephone	+49/(0) 8677/83-4888
	Telefax	+49/8677/886-9722
	eMail	WLCP-MSDS@wacker.com

1.4 Emergency telephone numberEmergency Information (German): plant fire brigade +49/(0) 8677/83-2222
Emergency Information (internat.): National Response Center +49/(0) 621/60-43333**2 Hazards identification****2.1 Classification**

R-Phrase	Description
R12	Extremely flammable.

2.2 Further hazards to man and environment

Liquified gas: Liquid flowing out can cause frostbites. The gas is heavier than air, it may collect in low-lying areas.

3 Composition/information on ingredients**3.1 Chemical characterization (preparation)**

Chemical characteristics
Polydimethylsiloxane + propellant

3.2 Hazardous ingredients

EC-No.	CAS No.	Material	Content %		Warning Label (EC)	
			from	to	Symbol	R-Phrases
203-448-7	106-97-8	Butane	>50,0		F+	12
200-827-9	74-98-6	Propane		<20,0	F+	12
200-857-2	75-28-5	iso-Butane		<5,0	F+	12

R-Phrase	Description
R12	Extremely flammable.
R12	Extremely flammable.
R12	Extremely flammable.

4 First-aid measures**4.1 General information:**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

4.2 After inhalation

Move to fresh air, keep the victim laying down and restful. If breathing has stopped, give artificial respiration. Seek medical advice and clearly identify substance.

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4.3 After contact with the skin

Wash with plenty of water or water and soap. Cover frostbitten body parts by sterile bandage.

4.4 After contact with the eyes

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

4.5 After swallowing

Give several small portions of water to drink. Do not induce vomiting.

5 Fire-fighting measures**5.0 General information:**

Heating leads to increased pressure and bursting of the container. Cool endangered containers with water. Fight fire from a safe distance.

5.1 Suitable extinguishing media

water mist , foam , carbon dioxide , extinguishing powder , sand .

5.2 Extinguishing media which must not be used for safety reasons

water jet , water spray .

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Heating may cause explosion. Hazardous combustion products: carbon monoxide , sulfur dioxide , soot , organic decomposition products .

5.4 Special protective equipment for fire fighting

Use respiratory protection independent of recirculated air.

6 Accidental release measures**6.1 Personal precautions**

Keep unprotected persons away. Wear personal protection equipment (see section 8). Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. Ensure adequate ventilation. Observe wind direction.

6.2 Environmental precautions

Prevent material from entering sewers or surface waters. Condense gasses/vapours/mists using a directed spray of water.

6.3 Methods for cleaning up

Exhaust vapours. Use absorbant materials to pick up residual liquids. Take up mechanically and dispose of according to local/state/federal regulations. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

6.4 Further information:

Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

7 Handling and storage**7.1 Handling****Precautions for safe handling:**

Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10.2.

Precautions against fire and explosion:

Do not open sprays violently and do not keep above 50 °C (122 °F) (TRG 300 pos. 6.6.1, par. 1 - German regulations for dangerous goods). Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Vapours heavier than air, therefore inflammable gas mixture may form mainly near floor. Do not use on oxygen instruments. In case of fire remove container out of endangered area. Cool endangered containers with water.

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7.2 Storage**Conditions for storage rooms and vessels:**

Store in a cool place.

Advice for storage of incompatible materials:

Do not store with: strong oxidizing agents , peroxides , Fire-promoting materials .

Further information for storage:

Keep in the original container in a cool well ventilated place. Protect against sun. Do not expose the product to thermal radiation.

8 Exposure controls and personal protection equipment**8.1 Exposure limits****Maximum airborne concentrations at the workplace:**

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.	Fibre/m ³
106-97-8	n-Butane	OEL	1450,0	600,0		

8.2 Exposure limited and controlled**8.2.1 Exposure in the work place limited and controlled****General protection and hygiene measures:**

Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. Do not eat, drink or smoke when handling. Preventive skin protection recommended.

Personal protection equipment**Respiratory protection**

Recommendation: gas mask filter AX . In case of long or strong exposure: positive pressure self contained breathing apparatus .

Hand protection

Recommendation: nitrile rubber protective gloves . Gloves suitable for up to 60 minutes' use.

Eye protection

protective goggles .

Skin protection

Recommendation: protective clothing .

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering limited surface waters and soil.

8.3 Further information for system design and engineering measures

Observe information in section 7.

9 Physical and chemical properties**9.1 General information**Physical state / form.....: aerosol
Colour.....: colourless
Odour.....: slight**9.2 Important information about the protection of health, safety and the environment Method:**Melting point / melting range.....: not applicable
Boiling point / boiling range.....: not applicable
Flash point.....: -104 °C
Ignition temperature: approx. 400 °C (DIN 51794)
Lower explosion limit (LEL).....: approx. 1,5 Vol-%
Upper explosion limit (UEL).....: approx. 10 Vol-%
Vapour pressure.....: 2700 hPa at 20 °C
Vapour pressure.....: 7300 hPa at 50 °C
Density.....: 0,6 g/cm³ at 20 °C
Water solubility / miscibility.....: virtually insoluble
pH-Value.....: not applicable
Viscosity (dynamic).....: not applicable

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9.3 Other information

10 Stability and reactivity

10.0 General information:

Stable under normal conditions of use.

10.1 Conditions to avoid

Heat, open flames, and other sources of ignition.

10.2 Materials to avoid

Reacts violently with: strong oxidizing agents . Reaction causes the formation of: heat to the point of explosion .

10.3 Hazardous decomposition products

If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known . The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

11 Toxicological information

11.0 General information:

Product not investigated. According to our present state of knowledge no damaging effect expected when treated in accordance with standard industrial practices and local regulations where applicable. Data applicable to polymer component.

11.1 Toxicological tests

Acute toxicity (LD50/LC50-values relevant to classification):

Exposition	Value/value range	Species	Source
oral	> 5000 mg/kg	rat	literature
dermal	> 2008 mg/kg	rat (Limit Test)	test report

Primary irritation:

Exposition	Effect	Species/Testsystem	Source
to skin	not irritating	rabbit	test report
to eyes	mildly irritating	rabbit	test report

Sensitization:

Exposition	Effect	Test method	Species	Source
to skin	not sensitizing	Magnusson-Kligmann	guinea-pig	test report

Further information:

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Reference points for mutagenic potential:

Test system	Effect	Source
Bacterial Reverse Mutation Test	not mutagenic	test report

11.2 Experience with man

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11.3 Further toxicological information

Organic solvent(s): Vapours may be narcotising.

12 Ecological information

12.1 Ecotoxicity

According to past experience toxicity to fish is improbable.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected.

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12.2 Mobility

Insoluble in water.

12.3 Persistence and degradability**Biodegradation / further information:**

Silicone content: Biologically not degradable. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

Further information:

Silicone content: Elimination by adsorption to activated sludge.

12.4 Bio-accumulation potential

Bioaccumulation is not expected to occur.

12.5 Other harmful effects

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12.6 Additional information**General information:**

No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

13 Disposal considerations**13.1 Material****Recommendation:**

Fully empty can. Observe local/state/federal regulations.

13.2 Uncleaned packaging**Recommendation:**

Pressure gas pack under pressure, must not be forced open or heated above 50 °C (122 °F). Dispose of only completely emptied pressure gas pack. Do not incinerate empty pressure gas packs. Do not pierce, cut or sold uncleaned containers. Containers may be recycled or re-used. Observe local/state/federal regulations.

13.3 Waste Disposal Legislation Ref.No. (EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

14 Transport information**14.1 Land transport ADR and RID****Road ADR:**Valuation.....: Hazardous product
Class.....: 2.1
UN no.: 1950
Proper Shipping Name.....: Druckgaspackungen**Railway RID:**Valuation.....: Hazardous product
Class.....: 2.1
UN no.: 1950**14.2 Transport by sea IMDG-Code**Valuation.....: Hazardous product
Class.....: 2.1
UN no.: 1950
Proper Shipping Name.....: Aerosols
Marine Pollutant.....: no

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14.3 Air transport ICAO-TI/IATA-DGR


Valuation.....: Hazardous product
 Class.....: 2.1
 UN no.: 1950
 Proper Shipping Name.....: Aerosols, flammable

14.4 Transport/further information

Informing dept. ref. to heading 14. Transport information:
 Department Hazardous Materials Service, Telefax: +49/(0) 8677/83-5589, Telephone: +49/(0) 8677/83-4950

15 Regulatory information

15.1 Warning Label (EC)

	F+	Extremely flammable
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R-Phrase	Description
R12	Extremely flammable.

S-Phrase	Description
S2	Keep out of the reach of children.
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S51	Use only in well-ventilated areas.

Hazard ingredients (labelling EC):

CAS No.	Material	Hazard symbols	Risk phrases (EC)
106-97-8	Butane	F+	12
74-98-6	Propane	F+	12

Special identification instructions: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

15.2 National regulations

National and local regulations must be observed.

SI 2002/1689:	CHIP Regulations 2002
SI 2002/2677:	COSHH Regulations 2002
SI 1999/3242:	Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974	
SI 1993/1643:	Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.	

15.3 Other international regulations

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Details of international registration status

Listed on or in accordance with the following inventories:

IECSC - China
EINECS - Europe
TSCA - USA
PICCS - Philippines
ENCS - Japan
ECL - Korea
DSL - Canada
AICS - Australia

16 Other information

16.1 Material

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

- End of Safety Data Sheet -